

PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

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INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

To:

Forsén & Salonen
Erikinkatu 2
FI-00100 Helsinki
Finland

SAAPINUT
27.05.05
FORSÉN & SALONEN

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year) 25-05-2005

Applicant's or agent's file reference
P7763PCWSPS

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/FI2005/050033

International filing date (day/month/year)
15-02-2005

Applicant
Nokia Corporation
et al

Applicant's or agent's file reference P7763PCWSPS	FOR FURTHER ACTION see PCT/FI/ISA/210 as well as, where applicable, item 3 below.
International application No. PCT/FI 2005/050033	International filing date (day/month/year) (Earliest) Priority Date (day/month/year) 15 February 2005 18 February 2004
Applicant Nokia Corporation et al	

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application to the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

A METHOD FOR DATA REPAIR IN A SYSTEM CAPABLE OF HANDLING
MULTICAST AND BROADCAST TRANSMISSIONS

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 34.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figures of the drawings to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (January 2004)

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is notified, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 3 months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes

1211 Geneva 20, Switzerland, Facsimile No. +41 22 740 14 35

For more detailed instructions, see notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the facts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet as to the protest: the applicant will be notified as soon as a decision is made.

4. Remarks

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 30 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/01 and, for details about the applicable time limit, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ Patent, or representative See 505 S-102 43 STOCKHOLM Facsimile No. 08-687 72 88	Tele 17074 PATORE-S	Authorized officer Telephone No. 08-782 55 00 J. Forsén
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Form PCT/ISA/210 (January 2004)

(See notes on accompanying sheet)

1
INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 2005/050033

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04L 1/16, H04L 1/14, H04L 12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data has been searched during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1146583 A2 (NTT DOCOMO, INC), 17 October 2001 (17.10.2001), paragraphs [0033]-[0042]; [0048]-[0052]; [0071]-[0072]; [0076]-[0077], abstract	1-29
	--	
X	EP 1185033 A1 (NTT DOCOMO, INC), 6 March 2002 (06.03.2002), claims 1,2,5,6,22,23 and abstract	1-29
	--	
A	GB 2287383 A (MOTOROLA LTD), 13 Sept 1995 (13.09.1995), figure 1, claims 1-4, abstract	1-29
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"C" document which may throw doubts on priority claim(s) in which is cited to establish the publication date of another citation or other prior art (not applicable)

"D" document referring to an oral disclosure, use, exhibition or other means

"F" document published prior to the international filing date but later than the priority date claimed

"I" non document published after the international filing date or priority date and not to consider with the application but cited to substantiate the principle or theory underlying the invention

"X" document of particular relevance: the citation invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the citation invention cannot be considered to involve an inventive step when the document is considered with state of the art other such documents and combination being obvious to a person skilled in the art

"A" document member of the same patent family

Date of the actual completion of the international search

20 May 2005

Date of mailing of the international search report

25-05-2005

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Telephone No. +46 8 686 02 16

Authorized officer

Nabi1 Sebbae /LR

Telephone No. +46 8 782 23 00

Form PCT/ISA/119 (second sheet) (January 2004)

2
INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 2005/050033

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20020095636 A1 (TATSUMI, H ET AL), 18 July 2002 (18.07.2002), abstract	1-29
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A	3GPP TS 23.246 V.5.1.0 (2003-12) 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Multimedia Broadcast/Multicast Service (MBMS); Architecture and functional description (Release 6) Retrieved on 2005-06-19 from the Internet: http://www.3gpp.org/ftp/Specs/html1-Info/23246.htm See sections 6.3 and 7	1-29
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A	US 20030031175 A1 (HAYASHI, M ET AL), 13 February 2003 (13.02.2003), abstract	1-29
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Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT
Information on patent family members

30/04/2005

International application No.
PCT/FI 2005/050033

PATENT COOPERATION TREATY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 25-05-2005

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
Forasen & Salomon Oy
Berikinkatu 2
FI-00100 Helsinki
Finland

Applicant's or agent's file reference
P7763PCOOSFS

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/FI2005/050033

International filing date (day/month/year)
15/02/2005

Priority date (day/month/year)
18/02/2004

International Patent Classification (IPC) or both national classification and IPC
H04L1/16, H04L1/14, H04L12/56

Applicant
Nokia Corporation et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
☒ Box No. II Priority
☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐ Box No. IV Lack of unity of invention
☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, clarity and explanation supporting such statement
☐ Box No. VI Certain documents cited
☐ Box No. VII Certain defects in the international application
☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority (IPEA) except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 56.1(a)(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further opinions, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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Patent- och registerinspektionen
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S-102 12 STOCKHOLM
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Form PCT/ISA/237 (cover sheet) (January 2004)